



Europäisches Patentamt

Eur pean Pat nt Office

Office européen des brevets



1) Publication number:

0 394 689 A3

12

## **EUROPEAN PATENT APPLICATION**

21 Application number: 90105915.4

(51) Int. Ci.5: D06M 15/643

22 Date of filing: 28.03.90

3 Priority: 29.03.89 US 330108

Date of publication of application:31.10.90 Bulletin 90/44

Beginsted Contracting States:
AT BE CH DE ES FR GB GR IT LI LU NL SE

Bate of deferred publication of the search report: 13.03.91 Bulletin 91/11

- Applicant: UNION CARBIDE CHEMICALS AND PLASTICS COMPANY, INC.
  39 Old Ridgebury Road
  Danbury Connecticut 06817-0001(US)
- (7) Inventor: Sabia, Angelo James 1370 Edcris Road Yorktown, New York, 10598(US) Inventor: Gum, Mary Lou 22 Cornell Road New Fairfiled, Connecticut, 06812(US)
- Representative: von Hellfeld, Axel, Dipl.-Phys. Dr. et al Wuesthoff & Wuesthoff Patent- und Rechtsanwälte Schweigerstrasse 2 W-8000 München 90(DE)
- Method of treating fabrics and other substrates with exhaustible cationic silicones.
- $\ \mathfrak{D}$  A method of improving the softness, or antistatic properties of a textile without yellowing comprising treating said textile with a composition comprising a) about 0.05 to about 5 weight percent of a cationic silicone of the structure M D<sub>x</sub> D'<sub>y</sub> M where M is (CH<sub>3</sub>)<sub>3</sub> SiO<sub>1/2</sub>; D is OSi(CH<sub>3</sub>)<sub>2</sub>; D' is CH<sub>3</sub>SiO(CH<sub>2</sub>)<sub>3</sub>OCH<sub>2</sub>CH(OH)CH<sub>2</sub>N<sup>+</sup>(CH<sub>3</sub>)<sub>3</sub>Cl<sup>-</sup>; x = 20-200; y = 3-60; and b) about 0 to 2 % of an electrolyte.



## **EUROPEAN SEARCH REPORT**

Application Number

| Y:pa<br>do | CATEGORY OF CITED DOCUME<br>rticularly relevant if taken plone<br>rticularly relevant if combined with a<br>cument of the same category<br>chnological background | nother                                      | T: theory or princip<br>E: earlier patent do<br>after the filing d<br>D: document cited<br>L: document cited | cument, but put<br>late<br>In the application<br>for other reason | ons or   |
|------------|---|---|--|---|--|
|            | Place of search VIENNA  | Date of completion of the search 11-12-1990 |  | BECK  |  |
|            | The present search report has l   |   |  |   |  |
| i          |   | • `   |  |   |  |
|            |   | Neg y                                       | .,   | e granistan   | and the second s |
|            |   | *   |  |   |  |
|            |   |   |  |   |  |
|            |   |   |  |   | D 06 M   |
|            |   |   |  |   | TECHNICAL FIELDS   |
|            |   |   |  |   |  |
| A          | US - A - 4 75<br>(TANAKA et al<br>* Claims;   | 7 121<br>.)<br>example 1 *                  |  | 1,4,6<br>8  | <del>-</del><br>   |
| A          | JP - B2 - 60-<br>(JAPAN EXLAN<br>* Claims *   | KK)   |  | 1,2,5   |  |
|            | (MANUFACTURE<br>CHIMIQUES PRO<br>Claims   | DE PRODUITS<br>TEX)                         |  | 10  |  |
| A          | of relevant pas   | soges                                       |  | to claims 2,4,6   | APPLICATION (Int. Cl.5)  D 06 M 15/64:   |
|            | DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document with indication, where expropriata,  |   |  | Relevant  | CLASSIFICATION OF THE  |